FIG.1

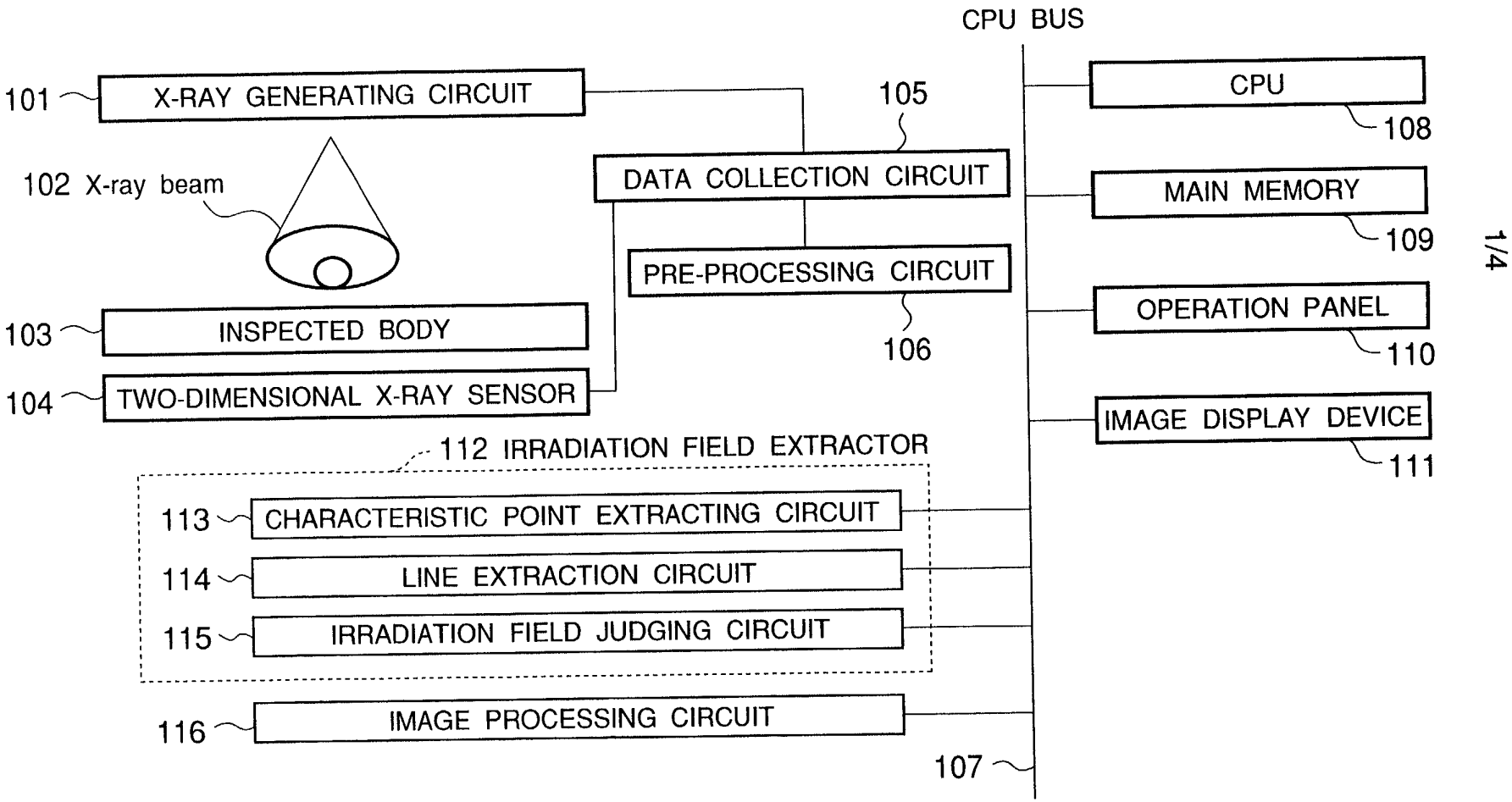

CPU BUS
101
X-RAY GENERATING CIRCUIT
102 X-ray beam
103
INSPECTED BODY
104
TWO-DIMENSIONAL X-RAY SENSOR
105
DATA COLLECTION CIRCUIT
PRE-PROCESSING CIRCUIT
106
112 IRRADIATION FIELD EXTRACTOR
113
CHARACTERISTIC POINT EXTRACTING CIRCUIT
114
LINE EXTRACTION CIRCUIT
115
IRRADIATION FIELD JUDGING CIRCUIT
116
IMAGE PROCESSING CIRCUIT
107
CPU
108
MAIN MEMORY
109
OPERATION PANEL
110
IMAGE DISPLAY DEVICE
111

FIG.2

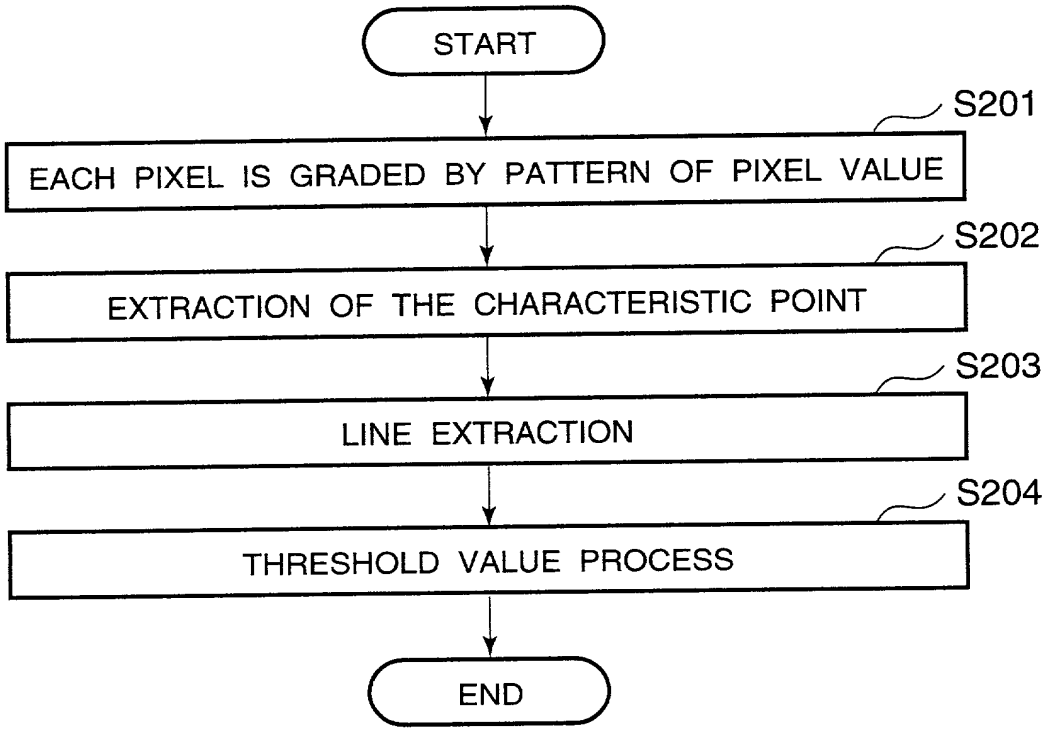

START
S201
EACH PIXEL IS GRADED BY PATTERN OF PIXEL VALUE
S202
EXTRACTION OF THE CHARACTERISTIC POINT
S203
LINE EXTRACTION
S204
THRESHOLD VALUE PROCESS
END

FIG.3

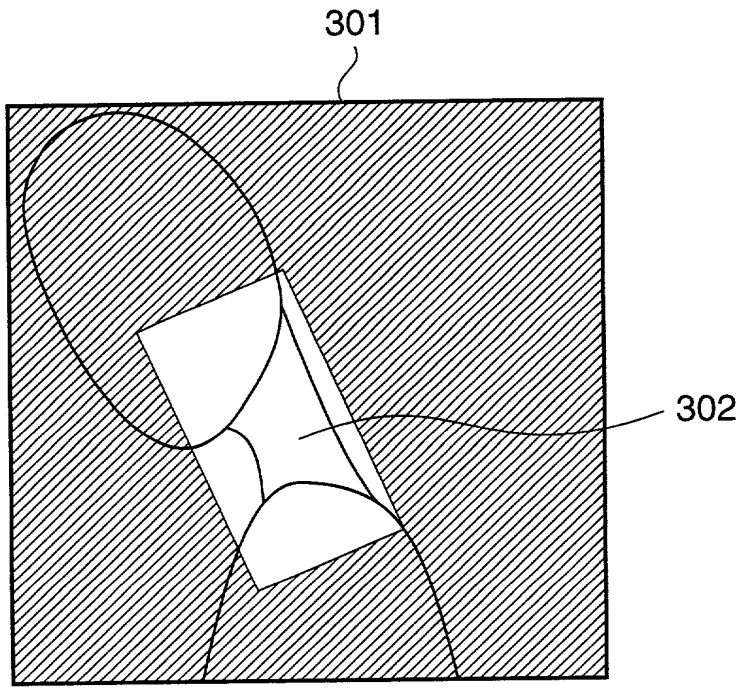
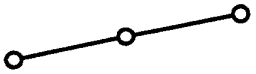
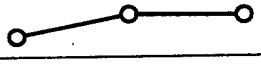
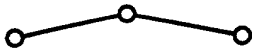
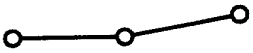
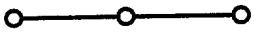
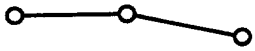
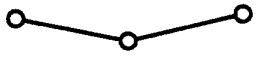
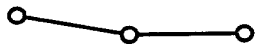
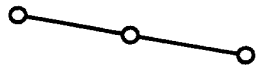


FIG.4

| | (x−5,y) (x,y) (x+5,y) | SCORE S |
|---|---|---|
| PATTERN OF PIXEL VALUE |  | 4 |
| |  | 3 |
| |  | 2 |
| |  | 3 |
| |  | 2 |
| |  | 1 |
| |  | 2 |
| |  | 1 |
| |  | 0 |